

VOLUME 42 CONTENTS

NUMBER 1

- | | | |
|---|----|---|
| | 1 | Editorial |
| J. C. McDONALD | 3 | Invited Editorial. Unfinished business: the asbestos textiles mystery |
| F. D. K. LIDDELL, A. D. McDONALD and J. C. McDONALD | 7 | Dust exposure and lung cancer in Quebec chrysotile miners and millers |
| G. BURDETT | 21 | A comparison of historic asbestos measurements using a thermal precipitator with the membrane filter-phase contrast microscopy method |
| F. DESCHAMPS, A. PREVOST, F. LAVAUD and S. KOCHMAN | 33 | Mechanisms of occupational asthma induced by isocyanates |
| I. PENGELLY, J. GROVES and C. NORTHAGE | 37 | An investigation into the composition of products evolved during heating of hot metal adhesives |
| E. SCOBIE, D. W. DABILL and J. A. GROVES | 45 | The development of an improved method for the determination of coal tar pitch volatiles (CTPV) in air |
| Letters to the Editor
H. GLINDMEYER | 61 | Performance of abrasive blasting respirators |
| M. P. GUILLEMIN | 63 | Health effects of diesel emissions |
| W. K. C. MORGAN and R. B. REGER | 65 | Reply |
| Book Reviews
A. BURDORF | 67 | <i>A Guide to Manual Materials Handling, Second Edition.</i> By A. MITAL, A. S. NICHOLSON and M. M. AYOUB |
| A. M. RICKMANN | 67 | <i>The Control and Management of Asbestos in Buildings—A System of Local Rules.</i> By J. CLAYDON and J. MORGAN |
| | 69 | Erratum |

NUMBER 2

- | | | |
|--|----|---|
| | 71 | Robin Howie, President of the British Occupational Hygiene Society, 1997–1998 |
| T. M. SPEAR, M. A. WERNER, J. BOOTLAND, E. MURRAY, G. RAMACHANDRAN and J. H. VINCENT | 73 | Assessment of particle size distributions of health-relevant aerosol exposures of primary lead smelter workers |
| T. BELLANDER, E. MERLER, F. CECCARELLI and P. BOFFETTA | 81 | Historical exposure to inorganic mercury at the smelter works of Abbadia San Salvatore, Italy |
| J. W. CHERRIE | 91 | Selecting an adequate respiratory protective device: the choice between a respirator and breathing apparatus |
| M. C. ARROYO and J. M. ROJO | 97 | National versus international asbestos fibre counting schemes: comparison between the Spanish Interlaboratory Quality Control Programme (PICC-FA) and the Asbestos Fibre Regular Informal Counting Arrangement (AFRICA) |

Contents

J. H. M. VAN DELFT, M.-J. S. T. STEENWINKEL, J. G. VAN ASTEN, J. VAN ES, A. KRAAK and R. A. BAAN	105	Monitoring of occupational exposure to polycyclic aromatic hydrocarbons in a carbon-electrode manufacturing plant
E. TIELEMANS, L. L. KUPPER, H. KROMHOUT, D. HEEDERIK and R. HOUBA	115	Individual-based and group-based occupational exposure assessment: some equations to evaluate different strategies
J. MALCHAIRE, A. PIETTE and L. S. RODRIGUEZ DIAZ	121	Temporary threshold shift of the vibration perception threshold following a short duration exposure to vibration
M. ROTHBERG, A. HELOMA, J. SVINHUFVUD, E. KÄHKÖNEN and K. REIJULA	129	Measurement and analysis of nicotine and other VOCs in indoor air as an indicator of passive smoking
R. K. BENTSEN, H. NOTØ, K. HALGARD and S. ØVREBØ	135	The effect of dust-protective respirator mask and the relevance of work category on urinary 1-Hydroxypyrene concentration in PAH exposed electrode paste plant workers
Book Reviews J. J. VAN HEMMEN	145	<i>Biological Monitoring of Chemical Exposure in the Workplace</i> . WHO.
J. MALCHAIRE	146	<i>Vibration Solutions: Practical Ways to Reduce the Risk of Hand-arm Vibration Injury</i> . HSE.
G. PICKFORD	146	<i>Determination of Airborne Fibre Number Concentrations. A Recommended Method by Phase-contact Optical Microscopy (Membrane Filter Method)</i> . WHO.
NUMBER 3		
J. C. McDONALD	147	Invited Editorial: The three solitudes
J. A. F. DE VREEDE, D. H. BROUWER, H. STEVENSON and J. J. VAN HEMMEN	151	Exposure and risk estimation for pesticides in high-volume spraying
A. N. I. GARROD, D. A. RIMMER, L. ROBERTSHAW and T. JONES	159	Occupational exposure through spraying remedial pesticides
S. SEMPLE and J. W. CHERRIE	167	Factors influencing personal magnetic field exposure: preliminary results for power utility and office workers
G. BENKE, M. ABRAMSON and M. SIM	173	Exposures in the alumina and primary aluminium industry: an historical review
O. KAMSTRUP, J. M. G. DAVIS, A. ELLEHAUGE and M. GULDBERG	191	The biopersistence and pathogenicity of man-made vitreous fibres after short- and long-term inhalation
E. SCOBIE and J. A. GROVES	201	Determination of dimethyl sulphate and diethyl sulphate in air by thermal desorption gas chromatography – mass spectrometry
G. L. BURGESS	209	Development of an exposure matrix for respirable crystalline silica in the British pottery industry
Short Communication R. GROSJEAN, H. ACKERMANS, M. DE RIDDER and M. DE MEESTER	219	Determination of free silica in a set of toners

Contents

Book Reviews

- | | | |
|--------------|-----|---|
| D. HUGHES | 221 | <i>Non-ionising Radiation</i> . Edited by J. A. Dennis and J. Stather. |
| M. J. DUGGAN | 222 | <i>High Levels of Natural Radiation 1996—Radiation Dose and Health Effects</i> . By L. Wei, T. Sugahara and Z. Tao. |

NUMBER 4

- | | | |
|--|-----|---|
| C. McDONALD | 223 | Invited Editorial: Risk? What Risk? |
| | 225 | Obituary, S. A. Roach: An Appreciation |
| J. M. HARRINGTON | 227 | Facts, Fallacies and Fears: The Public and the Health Professionals at Odds |
| M. GULDBERG, V. R. CHRISTENSEN,
M. PERANDER, B. ZOITOS,
A. R. KOENIG and K. SEBASTIAN | 233 | Measurement of <i>In-Vitro</i> Fibre Dissolution Rate at Acidic pH |
| S. HEWITT | 245 | Assessing the Performance of Anti-vibration Gloves—A Possible Alternative to ISO 10819, 1996 |
| R. McL. NIVEN, A. M. FLETCHER,
C. A. C. PICKERING, D. FISHWICK,
H. C. FRANCIS, C. J. WARBURTON
and L. A. OLDHAM | 253 | A Comparison of Performance of Two Personal Sampling Heads for Cotton Dust |
| J. BAREK, J. CVAČKA, J. ZIMA,
M. DE MÉO, M. LAGET, J. MICHELON
and M. CASTEGNARO | 259 | Chemical Degradation of Wastes of Antineoplastic Agents Amsacrine, Azathioprine, Asparaginase and Thiotepa |
| P. SARTORELLI, C. APREA, A. CENNI,
M. T. NOVELLI, D. ORSI, S. PALMI and
G. MATTEUCCI | 267 | Prediction of Percutaneous Absorption from Physicochemical Data: A Model Based on Data of <i>In Vitro</i> Experiments |
| B. E. HOLLUND and B. E. MOEN | 277 | Chemical Exposure in Hairdresser Salons: Effect of Local Exhaust Ventilation |

Book Reviews

- | | | |
|---|-----|---|
| P. WARDENBACH | 283 | <i>1,2-Diaminoethane [Ethylenediamine, (EDA)] Risk Assessment Document EH/72/7</i> . HSE. |
| A. AALTO | 284 | <i>Phenylhydrazine—Risk Assessment Document EH72/1</i> . HSE. |
| A. WILSCHUT, P. M. J. BOS and
H. STEVENSON | 285 | <i>3-Chloroprene—Risk Assessment Document EH72/4</i> . HSE. <i>2-Furaldehyde—Risk Assessment Document EH72/6</i> . HSE. |
| D. GOMPERTZ | 286 | <i>Biological Monitoring in the Workplace: A Guide to its Practical Application to Chemical Exposure</i> . HSE. |

NUMBER 5

- | | | |
|---|-----|--|
| K. DONALDSON and P. J. A. BORM | 287 | The Quartz Hazard: A Variable Entity |
| I. PENGELLY, J. GROVES, A. SIMPSON
and C. NORTHAGE | 295 | Workplace Exposure to Rosin-based Solder Flux Fume During Hand Soldering |

Contents

P. E. J. BALDWIN and A. D. MAYNARD	303	A Survey of Wind Speeds in Indoor Workplaces
M. J. DUGGAN and B. E. LAMBERT	315	Standards for Environmental, Non-threshold, Carcinogens: A Comparison of the Approaches Used for Radiation and for Chemicals
D. K. VERMA, J. G. PAGOTTO, D. S. SHAW, K. DESTOMBE and E. NIEBOER	325	Assessment of Triethylamine and Diethylamine Emission from Military Gas Mask Canisters
P. CHADWICK and F. LOWES	331	Magnetic Fields on British Trains
C. E. FISHER, D. M. BROWN, J. SHAW P. H. BESWICK and K. DONALDSON	337	Respirable Fibres: Surfactant Coated Fibres Release More Fe ³⁺ than Native Fibres at both pH 4.5 and 7.2
Short Communication T. SORAHAN, L. HAMILTON, D. GOMPERTZ, L. S. LEVY and J. M. HARRINGTON	347	Quantitative Risk Assessments Derived from Occupational Cancer Epidemiology: A Worked Example
Book Reviews J. LUNN	353	<i>Occupational Blood-borne Infections</i> . Edited by C. H. COLLINS and D. A. KENNEDY
J. BECK	353	<i>A Review of Screening and Surveillance of Workers Exposed to Mineral Dusts</i> . By G. G. WAGNER

NUMBER 6

Special Issue: Exposure Limits and Control Banding

TREVOR OGDEN	355	Editorial
M. D. TOPPING, C. R. WILLIAMS and J. M. DEVINE	357	Industry's Perception and Use of Occupational Exposure Limits
R. M. RUSSELL, S. C. MAIDMENT, I. BROOKE and M. D. TOPPING	367	An Introduction to a UK Scheme to Help Small Firms Control Health Risk from Chemicals
I. M. BROOKE	377	A UK Scheme to Help Small Firms Control Health Risks from Chemicals: Toxicological Considerations
S. C. MAIDMENT	391	Occupational Hygiene Considerations in the Development of a Structured Approach to Select Chemical Control Strategies
B. HUDSPITH and A. W. M. HAY	401	Information Needs of Workers
IAN GUEST	407	The Chemical Industries Association Guidance on Allocating Occupational Exposure Bands
<hr/>		
Letters to the Editor P. HEWETT	413	A Log-normal Distribution-based Exposure Assessment Method for Unbalanced Data
S. M. RAPPAPORT, L. L. KUPPER and R. H. LYLES	417	Reply
P. HEWETT	420	Reply
S. M. RAPPAPORT, L. L. KUPPER and R. H. LYLES	421	Reply

Contents

NUMBER 7

- | | | |
|---|-----|---|
| A. THORPE and R. C. BROWN | 423 | Measurement of the Performance of Free-standing Filtering Extraction Units used in the Woodworking Industry |
| M. HERY, J. M. GERBER, G. HECHT,
I. SUBRA, C. POSSOZ, S. AUBERT,
M. DIEUDONNE and J. C. ANDRE | 437 | Exposure to Chloramines in a Green Salad Processing Plant |
| J. F. FABRIÈS, P. GÖRNER, E. KAUFFER,
R. WROBEL and J. C. VIGNERON | 453 | Personal Thoracic CIP10-T Sampler and its Static Version CATHIA-T |
| E. P. B. BIERMAN, D. H. BROUWER
and J. J. VAN HEMMEN | 467 | Implementation and Evaluation of the Fluorescent Tracer Technique in Greenhouse Exposure Studies |
| J. P. WHEELER and J. D. STANCLIFFE | 477 | Comparison of Methods for Monitoring Solid Particulate Surface Contamination in the Workplace |
| C. KEEN, I. PENGELLY and
J. A. GROVES | 489 | Measurement of Airborne Cyanoacrylates |
| C.-C. CHEN, T.-S. YU, J.-Y. CHANG,
C.-W. CHANG, T.-S. SHIH and
J.-S. HWANG | 501 | A Computer Simulation Study on Bioaerosol Colony Counting Error Due to Masking Effect |

NUMBER 8

- | | | |
|--|-----|--|
| A. E. JOHNSON and R. C. BROWN | 511 | Measurement of the Performance of Air Cleaners Against the Particulate Element of Rosin-based Solder Flux Fume |
| B. FUBINI | 521 | Surface Chemistry and Quartz Hazard |
| I. BROOKE, J. COCKER, J. I. DELIC,
M. PAYNE, K. JONES, N. C. GREGG
and D. DYNE | 531 | Dermal Uptake of Solvents from the Vapour Phase: An Experimental Study in Humans |
| C. LIDÉN, L. LUNDGREN, L. SKARE,
G. LIDÉN, G. TORNLING and
S. KRANTZ | 541 | A New Whole-body Exposure Chamber for Human Skin and Lung Challenge Experiments—the Generation of Wheat Flour Aerosols |
| W. C. V. LIU and
D. SANCHEZ-MONROY | 549 | Prevalence of Back Discomfort and Estimates of Back Load in Two Manufacturing Facilities |
| B. E. BANG and H. SUHR | 557 | Quartz Exposure in the Slate Industry in Northern Norway |
| Short Communication | | |
| A. J. STEWART-TAYLOR and
J. W. CHERRIE | 565 | Does Risk Perception Affect Behaviour and Exposure? A Pilot Study Amongst Asbestos Workers |
| Book Review | | |
| T. L. OGDEN | 571 | <i>The Workplace. Vol. 1 Fundamentals of Health, Safety and Welfare. Vol. 2 Major Industries and Occupations.</i> D. Brune, G. Gerhardsson, G. W. Crockford, D. D'Auria and D. Norbäck |

